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NOTICE OF ALLOWANCE AND FEE(S) DUE

46368 7590 12/11/2009 CARLSON, GASKEY & OLDS, P.C./Alcatel-Lucent 400 W MAPLE RD SUITE 350 EXAMINER

LOO, JUVENA W

ART UNIT PAPER NUMBER

2473

DATE MAILED: 12/11/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/762,022	01/21/2004	Anindya Roy	ROY 1; 67108-359PUS1	3991		
ITTLE OF INVENTION: CONGESTION CONTROL IN CONNECTION-ORIENTED PACKET-SWITCHING NETWORKS						

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 03/11/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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400 W MAPLE SUITE 350	ASKEY & OLDS RD	/2009 , P.C./Alcatel-Luc	eent	I her State addr trans	Cer reby certify that the es Postal Service v essed to the Mail smitted to the USP	tificate is Fec(vith sul I Stop TO (57	of Mailing or Transa s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the da	nission deposited with the Unite t class mail in an envelop above, or being facsimil ate indicated below.
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APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/762,022 TITLE OF INVENTION	01/21/2004 i: CONGESTION CONT	TROL IN CONNECTION	Anindya Roy N-ORIENTED PACKI	ET-S	WITCHING NET		1; 67108-359PUS1 S	3991
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/11/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	S				
LOO, JU		2473	370-351000					
"Fee Address" inc PTO/SB/47; Rev 03-1 Number is required. 3. ASSIGNEE NAME A	condence address (or Cha B/122) attached. lication (or "Fee Address 32 or more recent) attach LND RESIDENCE DAT. less an assignee is ident th in 37 CFR 3.11. Com	inge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON	or agents OR, alte (2) the name of a registered attorney 2 registered paten listed, no name wi THE PATENT (print	rnativ single y or a t attor ill be or typ the pa	e firm (having as a agent) and the nam meys or agents. If printed. se) atent. If an assign assignment.	membes of u no nan	er a 2p to p to se is 3	ocument has been filed fo
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Advance Order -	No small entity discount j	permitted)	A check is enclosed. Payment by cred The Director is h	sed. it can ereby	d. Form PTO-2038	is atta	required fee(s), any det	
	itus (from status indicate is SMALL ENTITY stati		b. Applicant is no	o long	ger claiming SMA	LL EN	FITY status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee ar	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademar	ed from anyone other t	han t	he applicant; a regi	stered	attorney or agent; or th	e assignee or other party i
Authorized Signature					Date			
Typed or printed name Registration					lo			
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DC 313-1450.	CFR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection y depending upon the the Chief Information C COMPLETED FORM	n or r is est indiv Office IS TO	etain a benefit by t imated to take 12 idual case. Any co r, U.S. Patent and D'THIS ADDRESS	he pub minute mmen Trader S. SEN	tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Deps D TO: Commissioner i	by the USPTO to process g gathering, preparing, an are you require to complet attment of Commerce, P.C. for Patents, P.O. Box 1450

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CARLSON, GAS	SKEY & OLDS, P.C.	LOO, JUVENA W		
400 W MAPLE RI)	ART UNIT	PAPER NUMBER	
SUITE 350 BIRMINGHAM, N	и 48009	2473 DATE MAILED: 12/11/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 918 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 918 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/762 022 ROY, ANINDYA Notice of Allowability Examiner Art Unit JUVENA LOO 2473 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to November 25, 2009. The allowed claim(s) is/are 7-12,15-17, and 21-22. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other . /Hanh Nguyen/

Primary Examiner, Art Unit 2473

Application/Control Number: 10/762,022

Art Unit: 2473

Allowable Subject Matter

Claims 7-12, 15-17, and 21-22 are allowed.

The following is an examiner's statement of reasons for allowance:

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 3. The present invention is directed to congestion control in connection-oriented packet switching networks. Each independent claim identifies the uniquely distinct features:
- 4. Regarding claim 15, ascertain whether X alternative paths exist with available resources able to satisfy a reduced Available Cell Rate of R'_{ACR}, if M alternative paths do not exist, wherein R'_{ACR} is less than the R_{ACR}, but is greater than a new available cell rate for the first path if rate control were instituted to eliminate the traffic congestion; and select one of the X alternative paths to reroute the traffic between the source node and the destination node if the X alternative paths exist.

The closest prior arts, Shirai (5912877) and Hu (US 2003/0016808 A1) disclose conventional congestion control in networks, either singularly or in combination, fail to anticipate or render the above features obvious.

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5. Regarding claim 16, determining that there is an indication of traffic congestion in a first path connecting a source node and a destination node for a communication session, wherein the first path is a non-real time connection with an available cell rate of RACE:

the source node ascertaining whether M alternative paths exist with available resources able to satisfy the R_{ACR} for transferring traffic between the source node and the destination node, wherein M is equal to or greater than 1;

the node selecting one of the M alternative paths to reroute the traffic between the source node and the destination node if the M alternative paths exist;

the source node ascertaining whether X alternative paths exist with available resources able to satisfy a reduced Available Cell Rate of R'_{ACR} , if M alternative paths do not exist, wherein R'_{ACR} is less than the R_{ACR} , but is greater than a new available cell rate for the first path if rate control were instituted to eliminate the traffic congestion; and

the source node selecting one of the X alternative paths to reroute the traffic between the source node and the destination node if the X alternative paths exist, the selected alternative path replacing the first path for a remainder of the communication session.

The closest prior arts, Shirai (5912877) and Hu (US 2003/0016808 A1) disclose conventional congestion control in networks, either singularly or in combination, fail to anticipate or render the above features obvious.

6. Regarding claim 17, means for ascertaining whether X alternative paths exist with available resources able to satisfy a reduced Available Cell Rate of R'_{ACR} , if M alternative paths do not exist, wherein R'_{ACR} is less than the R_{ACR} , but is greater than a new available cell rate for the first path if rate control were instituted to eliminate the traffic congestion; and

Means for selecting one of the X alternative paths to reroute the traffic between the source node and the destination node if the X alternative paths exist.

The closest prior arts, Shirai (5912877) and Hu (US 2003/0016808 A1) disclose conventional congestion control in networks, either singularly or in combination, fail to anticipate or render the above features obvious.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUVENA LOO whose telephone number is (571)270-1974. The examiner can normally be reached on Monday - Friday: 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kwang Yao can be reached on (571) 272-3182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JUVENA LOO/ Examiner Art Unit 2473 December 02, 2009